

OpenMP Brookathon 2019

Report of Contributions

Contribution ID: 1

Type: **not specified**

Hackathon Welcome

Monday, 29 April 2019 09:00 (5 minutes)

Contribution ID: 2

Type: **not specified**

Safety Briefing

Monday, 29 April 2019 09:05 (10 minutes)

Contribution ID: 3

Type: **not specified**

Teams Hacking

Tuesday, 30 April 2019 10:00 (4 hours)

Contribution ID: 4

Type: **not specified**

Porting and Optimizing Applications for AC922 servers using OpenMP and Unified Memory

Wednesday, 1 May 2019 09:00 (1 hour)

OpenPOWER Newell systems (AC922) leverage heterogeneity in the compute elements and memory types to deliver high performance in both Technical Computing (HPC) and Cognitive applications, while offering a wide variety of programming models. In this talk we will review implementations and performance optimizations for code regions where tight integration between the CPU cores and GPUs as well between the CPU and GPU memories is required.

We will focus on programming with OpenMP4.5 directives and use of the Unified Global Address Space, we will review code samples and discuss strategies in implementing functions for inter-node communication and support for applications requiring large memory footprint.

Presenter: GRINBERG, Leopold (IBM)

Contribution ID: 5

Type: **not specified**

Final Team Reports

Thursday, 2 May 2019 12:00 (2 hours)